

HHE UNIVERD STEATES OF ANTERIOA

<u>TO ALL TO WHOM THESE; PRESENTS; SHALL COME;</u>

D&PL Jechnology Holding Company, TLC.

I LOCCIES, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR PERPONENT VARIETY THEREFROM, TO THE EXIENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84) 42, AS AMENDED, 7 U.S.C. 2321 ET SEO.)

SOYBEAN

'DP 5915 RR

In Testimonn Marcest, I have hereunto set my hand and caused the seal of the Mant Anxiety Protection Office to be affixed at the City of Washington, D.C. this twenty-seventh day of August, in the year two thousand and four.

Dengen

Commissioner Plant Variety Protection Office Agricultural Marketing Service atary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFIC

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

The following statements are made in accordance with the Privacy Act of 1974 (5U.S.C. 552a) an the Paperwork Reduction Act (PRA) of 1995

Application is required in order to determine if a stant (die Cordection) of (7 U.S.C. 2421). Information is held confidential until certificate to issued

(Instructions and information	on collection burden sta	tement on reverse						
1. NAME OF OWNER				2. TEMPORARY I EXPERIMENTA		PR 3. \	ARIETY NAME	
D&PL Technology Holdi	ng Company, LLC				5915 RR		DP 5915 RR	
							<u> </u>	<u> </u>
4. ADDRESS (Street and No., or R.F.D. No	., City, State, and ZIP (Code, and Country)		5. TELEPHONE (i	nclude area code		O NUMBER	
PO Box 157 100 Main Street				(66	2) 742-4141		• -	
Scott, Mississippi 38772	?			6. FAX (include an	ea code)		900285	
USA				(66	2) 742-3182	FILI	NG DATE	_
7. IF THE OWNER IS NOT A "PERSON" GIVE FORM OF CRGANIZATION (corporation, partnership, association, etc. STATE OF INCORP			-	9. DATE OF INCO	RPORATION	5	May, 1999	
Limited Liability Con	npany	Delawar	re	Febr	rary 29, 1996			
10. NAME AND ADDRESS OF OWNER RE	PRESENTATIVE(S) TO	O SERVE IN THIS A	PPLICATION	l. (First person listed will receive a	ll papers)		ILING AND EXAMINATION EE:	
Delta and Pine Land Con	npany] [
Kelly Casavechia P.O. Box 157						\$	2,450,00	
Scott, MS 38772							DATE 5 May, 1999	
							ERTIFICATION FEE:	
						s	432.00	
							ERTIFICATION FEE: Y3Q,00 ATE 7-16-04 (Common Name)	
11. TELEPHONE (include area code) 12.	FAX (include area code	9)	13. E_M	AIL			(Common Name)	_
					,	•		
(662) 742-4141	(662) 742			y.h.casavechia@deltaand	pine.com		Soybean	
15. GENUS AND SPECIES NAME OF CRO	P	16. FAMIL	Y NAME (Bo	tanical)		17. IS THE VAR HYBRID?	IETY A FIRST GENERATION	
<u>Glycine Max</u>			I	EGUMINOSAE		· □ _Y	ES X NO	
18. CHECK APPROPRIATE BOX FOR EAC	H ATTACHMENT SUB	MITTED (Follow inst	ructions on	19. DOES THE OWNER SPECI				
reverse). a. x Exhibit A. Origin and Breeding H	istory of the Va <i>r</i> iety			CERTIFIED SEED? (See Se	ection 83(a) of th	e Plant Variety Pr	djection Ac	
b. x Exhibit B. Statement of Distinctne c. x Exhibit C. Objective Description				YES (If "yes", answ	er items 20	Х ио (If "no", go to item 22)	
d. X Exhibit D. Additional Description	-			and 21 below) 20. DOES THE OWNER SPECIFY	THAT SEED OF	THIS VARIETY BE	LIMITED AS TO NUMBER	_
e. x Exhibit E. Statement of the Basis		•		OF GENERATIONS?				
f. x Voucher Sample (2,500 viable un verification that tissue culture will		· · -	·	YES		□NO		
repository)				21. IF "YES" TO ITEM 20, WHIC	H CLASSES OF		EYOND BREEDER SEED?	
g. X Filing and Examination Fee (\$2,44 States* (Mail to the Plant Variety F		reasurer of the Unite	∋ c	FOUNDATION	REGISTE	RED [CERTIFIED	
22. HAS THE VARIETY (INCLUDING ANY F	IARVESTED MATERIA	•		23. IS THE VARIETY OR ANY COI	MPONENT OF TH	E VARIETY PROTI		_
FROM THIS VARIETY BEEN SOLD, DIS	SPOSED OF, TRANSF	ERRED, OR USED I	IN THE U.S.	PROPERTY RIGHT (PLANT BE		OR PATENT)!		
	- As of date of original	* *		XYES	□NO	OD 1001 IANIOE A	ND ACCIONE	
IF YES, YOU MUST PROVIDE THE DAT FOR EACH COUNTRY AND THE CIRCU				IF YES, GIVE COUNTRY, D. REFERENCE NUMBER. (P.				
24. The owners declare that a viable sample for a tuber propagated variety a tissue or						ance with such re	gulations as may be applicable, o	r
The undersigned owner(s) is(are) the ow and is entitled to protection under the pro				t variety, and believe(s) that the v	ariety is new, dis	tinct, uniform, and	stable as required in Section 42,	
Owner(s) is(are) informed that false repr	esentation herein can je	pardize protection	and result in	penalties.				
SIGNATURE OF OWNER	an Inda	^	SIGNATU	RE OF OWNER	//			
IAME (Please print or type)		<u> </u>	NAME (P	ease print or type)	The			_
000			`					
Jeffrey M. Tyler PAPACITY OR TITLE	DATE	. 1		iam V. Hugie Y OR TITLE			DATE	_
Sovhean Breeder	02-0	14-2004	ļ	President/Director	of Recease	h	02-05-04	

Soybean Breeder

Vice President/Director of Research

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Hetain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check paybable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

> Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

- 18a. Give:
- (1) the genealogy, including public and commercial varieites, lines, or clones used, and the breeding method
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of realted varieties:
 - (1) Identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Secion 97.103).
- See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date. 23.
- CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
ROUNDUP READY eetten: Soy Dean (per applicant's Authorization given 2/10/2004 8T),

These seeds are covered under U.S. Patents 5,633,435; 5,352,605; 5,530,196; 5,188,642; 4,940,835; 5,717,084; 5,728,925; and 5,804,425.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed/ls-sd.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to recond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U. S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

EXHIBIT A

Dept Technology Holding Company, LLC.'s (67: 2/16/2004) DEPT TO PROPERTY APPLICATION FOR DP 5915 RR

ORIGIN AND BREEDING HISTORY

SPRING-		
SUMMER	1992	Original cross and first backcross made between an experimental
		breeding line DPX 2384 and Roundup tolerant experimental line
		40-2-3
FALL	1992	DP 415 crossed with Roundup resistant F ₁ plants from 2384 BC ₁ F ₁
WINTER	1993	P9592 crossed to Roundup resistant F ₁ plants from DP 415 x 2384 BC ₁ F ₁
SUMMER	1993	Cross 93408 made: A5979 crossed to Roundup resistant F_1 plants from [P9592 x (DP 415 x 2384 BC ₁ F_1)]
WINTER	1993-94	Roundup tolerant F ₁ plants advanced to F ₂ under lights from cross
SUMMER	1994	93408 under lights in Costa Rica and F ₂ seed was bulked
SUMMER	1994	Roundup resistant F ₂ advanced to F ₃ by modified single seed descent method in Costa Rica
FALL	1994	Roundup resistant F ₃ plants space planted. Individual plant
 	-33.	selections harvested and threshed separately
WINTER	1994-95	F ₄ Roundup resistant plant rows from cross 93408 were grown in 3
		meter rows in Costa Rica. Row 93408-803 was selected, composited and determined to be stable and white for authorization
		"" · ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
		characteristics described in 'Exhibit C' of this application. No
		variants were known or observed by the breeder at this time and
SUMMER	1995	hence to the present (4 years)
SUMMER		Yield tested at Scott, Mississippi
	1996	93408-803 yield tested in 7 Deltapine Seed tests. Breeder seed purification was initiated.
•	1997	93408-803 yield tested at 16 locations. Breeder seed increased to 4
		units.
	1998	93408-803 tested at 14 locations. Breeder seed increased to 200
		units of Foundation seed. 93408-803 designated as DPX 5915 RR.
	1999	DPX 5915 RR entered into State Agricultural Experiment Station
		tests. Seed increased to 4000 units.
	2000	Released as DP 5915 RR

099000285

EXHIBIT B

Dapl Technology Holding
Company, L.C.'s (BT:2/16/2004)
APPLICATION FOR:

DP 5915 RR

NOVELTY STATEMENT

To our knowledge, DP 5915 RR is most similar to Novartis Brand S 59-V6. Differences include but are not restricted to the following:

- 1. DP 5915RR has white flowers whereas S 59-V6 has purple flowers.
- 2. DP 5915 RR matures 3 days later than S 59-V6.

EXHIBIT C*
(Soybean)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

9900285

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

	TEMPORARY DESIGNATION	VARIETY NAME	
NAME OF APPLICANT(S)		DP 5915 RR	
JOHN JOHN STATE TO THE PROPERTY OF THE PROPERT			
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Coo	de .(61/24/16/2004)	PVPO NUMBER	AL USE ONLY
100 Main Street Scott, MS 38772			
		9900285	,
Choose the appropriate response which characterizes the va in your answer is fewer than the number of boxes provided	riety in the features described , place a zero in the first box w	below. When the number is 9 or less	per of significant digits (e.g., 0 9).
1. SEED SHAPE:	\mathbf{O}		
2 W			
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)	1 1	(L/W ratio > 1.2; L/T rati	o = < 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		(L/T ratio > 1.2; T/W >	
2. SEED COAT COLOR: (Mature Seed)	·		
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Neb	soy'; 'Gasoy 17')		
4. SEED SIZE: (Mature Seed)			
1 3 Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)			
6 1 = Buff 2 = Yellow 3 = Brown	. 4 = Gray 5 = Imperfect Black	ack 6 = Black	7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)			
1 1 = Yellow 2 = Green			
7. SEED PROTEIN PEROXIDASE ACTIVITY:			
2 1 = Low 2 = High			
8. SEED PROTEIN ELECTROPHORETIC BAND:			e e e e e e e e e e e e e e e e e e e
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)			
9. HYPOCOTYL COLOR:			
1 = Green only ('Evans'; 'Davis') 2 = Green w 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71 4 = Dark Purple extending to unifoliate leaves ('Hodgson')	vith bronze band below cotyledons (') n', 'Coker Hampton 266A')	('Woodworth'; 'Tracy')	
10. LEAFLET SHAPE:			. ———
3 1 = Lanceolate 2 = Oval 3 = Oval	te 4 = Other (<i>Specify</i>)		

11. LEA	AFLET SIZE:		4.5
2	•	= Medium ('Corsoy 79'; 'Gasoy 17')	
<u> </u>	3 = Large ('Crawford'; 'Tracy')		
			· · · · · · · · · · · · · · · · · · ·
12. LEA	AF COLOR:		
3		= Medium Green ('Corsoy 79'; 'Braxton')	
[3	3 = Dark Green ('Gnome'; 'Tracy')	•	
13. FLO	OWER COLOR:		
1	1 = White 2 = Purple 3 = V	White with purple throat	•
<u> </u>		generating this	
14. POD	COLOR: ISDA	-AMS-PVPO	
<u> </u>			
, L	1 = Tan 2 = Brown 3 = Black		
15. PLAI	ANT PUBESCENCE COLOR: 99 M	W -5 P3:37	
[3	- 1		
2	1 = Gray 2 = Brown (Tawny)	•	
40.01.44	AIT TVDCO.		
io. PLAI	NT TYPES:	en e	
2		= Intermediate ('Amcor'; 'Braxton')	
<u> </u>	3 = Bushy ('Gnome'; 'Govan')		
17 DI AS	NT HABIT:		
IZ. FEAR			
1	1 = Determinate ('Gnome'; 'Braxton') 2 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	= Semi-Determinate ('Will')	
			
18. MAT	FURITY GROUP:		
0 8	1 	= I 5 = II 6 = III 7 = IV	8 = V
1	9 = VI 10 = VII 11 = VIII 12	2 = IX	
			A secularity was
19. DISE/	ASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible	e; 2 = Resistant)	
BAC	CTERIAL DISEASES:		
2	Bacterial Pustule (Xanthomonas phaseoli var. sojensis,		
		and the sparse land we	
0	Bacterial Blight (Pseudomonas glycinea)		
2	Wildfire (Pseudomonas tabaci)		
SUNG	J GAL DISEASES:	igen en e	
- CING	gae diseases: ¶ Tomorous transformation of a complete section	Awara Ingeria da an	
	Brown Spot (Septoria glycines)	and the contract of the contract of the	en de la companya de La companya de la co
	Frogeye Leaf Spot (Cercospora sojina)		and the second of the second o
			/^
	Race 1 Race 2 Race 3		Other <i>(Specify)</i> Races Unknown
2	Target Spot (Cocynespora cassiicola)		
* 701	Downy Mildew (Peronospora trifoliorum var. manshur	ical	
<u> </u>	1	ina)	* * * * * * * * * * * * * * * * * * *
0	Powdery Mildew (Microsphaera diffusa)		and the second s
	Brown Stem Rot (Cephalosporium gregatum)	Traff	,
ليا _	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		in the Mark Toward
211	Stem Canker (Diaporthe phaseolorum var. caulivora)		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
FORM LMG	<u>10/2004 Per applicant's reguest</u> 1GS-470-57 (2-82) to mately beneaded EXD.D.Subm	Her	Page 2 of
and the state of t	thereby).	All Marie Control of the Control of	
	ing ing the control of the control	and the second of the control of the	The property of the control of the c

Page 2 of 4

19. DISEAS	SE REACTION	: (Enter 0 = Not T	ested; 1 = Susceptible	; 2 = Re:	sistant) (C	Continued	4)				
	GAL DISEASE	S: (Continued)		-	æ				(99002	85
0	Pod and Stem	Blight (Diaporthe	<i>phaseolorum</i> var; <i>soja</i>	ie)							•
0	Purple Seed S	tain (<i>Cercospora ki</i>	kuchii)								·
0	Rhizoctonia F	Root Rot <i>(Rhizoct</i> o	nia solani)								
	Phytophthora	Rot (Phytophthor	a megasperma var. soj	ae)							
1	Race 1	Race 2	Race 3	F	Race 4		Race 5		Race 6	A	lace 7
	Race 8	Race 9	Other (Specif	fy)				·			
VIRA	L DISEASES:										
	8ud Blight (T	obacco Ringspot V	irus)								
	Yellow Mosaid	c (Bean Yellow Mo:	saic Virus)								
	Cowpea Mosa	ic (Cowpea Chlorot	ic Virus)						·		
	Pod Mottle (B	ean Pod Mottle Vir	rus)								
2	Seed Mottle (S	Soybean Mosaic Vi	·us)								
NEM	ATODE DISEA	SES:									
	Soybean Cyst	Nematode (Hetero	dera glycinesi								
	Race 1	Race 2	2 Race 3	F	Race 4	2	Other (S	pecify) <u> </u>	Race 14		
	Lance Nemato	ode (Hoplolaimus C	olombus)		•	r					
1	Southern Roo	t Knot Nematode (Meloidogyne incognit	a)							
0	Northern Roo	t Knot Nematode (Meloidogyne Hapla)							,	
1	Peanut Root K	Knot Nematode (Me	eloidogyne arenaria)					i.		f	N.
0	Reniform Nen	natode (<i>Rotylench</i> u	ılus reniformis)								
	OTHER DISE	ASE NOT ON FOR	RM (Specify):						······································		
						·		·			
20. PHYSIO	LOGICAL RES	SPONSES: (Enter	0 = Not Tested; 1 = Se	usceptibi	ie; 2 = Res	istant)					
		on Calcareous Soil							•		•
2		, High Chlo									
21. INSECT	REACTION:	(Enter 0 = Not Tes	ted; 1 = Susceptible; 2	? = Resis	tant)	1 4 1 1 1 1	gr. De sensit	4471	est sej	The state of	
0	Mexican Bean	Beetle (Epilachna i	varivestis)			ing separation of	n niger Line a sa	ria Salat			
2	Potato Leaf He	opper (<i>Empoasca fa</i>	abae)			14 .)		*. *		
	Other (Specify	·)									
22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.											
CHAR	ACTER	NAME	OF VARIETY		CHAI	RACTER	.,		NAME	OF VARIET	Υ
Plant Sha	ipe	S59-V6		\	Seed Co	oat Luster	-	DP 56	44 RR		
Leaf Sha	pe	DP 5644 RR			Seed Siz	ze	<u> </u>		44 RR		
Leaf Cold	or	DP 5644 RR			Seed Sh	аре		DP 56	44 RR		····
Leaf Size		DP 5644 RR	·		Seedling	Pigment	tation	DP 56	44 RR	·	***************************************
						···				· · · · · · · · · · · · · · · · · · ·	

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY DAYS		PLANT CM LODGING PLANT		LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
MATURIT	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD
DP 5915 RR Submitted		1.4	60			35.1	20.0	13.1	
DP 5644 RR Name of Similar Variety	· .	1.6	66			35.7	18.8	13.2	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Reroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A₂ in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

EXHIBIT D

D&PL Technology Holding
Delta and Pine Land Company
APPLICATION FOR: (87: 2/10/2004)

DP 5915 RR

ADDITIONAL DESCRIPTION

DP 5915 RR is an F_4 Roundup tolerant selection composited in the F_5 generation from the cross A5979*[P9592x($\frac{415}{3}$ $\frac{1}{3}$ $\frac{1}{3}$



Soybean Product Nomination Form

DP 5915 RR

C. TINIUS Soybean Project Leader December, 1999

DP 5915 RR

PRODUCT SUMMARY SHEET

KEY FEATURES

Very good yield potential Resistant to races 3 and 14 of SCN Resistant to frogeye leaf spot

Mederation to frogeye leaf spot

M

PRODUCT DESCRIPTION

Trait Phenotype Relative maturity 5.9 Roundup Ready™ Yes STS® No Flower color White Pubescence color Tawny Hilum color Black Podwall color Tan Seed size 3000/lb Seed protein 36.3% Seed oil 18.6% Peroxidase reaction Untested Seedcoat luster Dull Hypocotyl color Bronze

Seed shape Spherical flattened Leaflet size Medium Leaflet color Dark green Intermediate Canopy Growth habit Determinate

SCN race 14 Moderately resistant

Resistant

Common root knot Susceptible Peanut root knot Susceptible Javanese root knot Untested Untested Lance nematode Frogeye leafspot Resistant Sudden death Untested

SCN race 3

Stem canker Phytophthora root rot Untested-

Red crown rot Untested Chloride tolerance Tolerant

Aerial Blight Untested

BREEDER'S SUBJECTIVE RATINGS

Field emergence Very good Early vigor Very good Narrow rows Excellent Wide rows Very good Excellent No-till Late planting Very good Poorly-drained soils Very good Shatter resistance Excellent

PRODUCT IDENTITY

Line selected by:

Dr. Grover Shannon

Former designation:

94408-803

Pedigree:

A5979*[P9592*(DPL415*RRBC₁)]

Areas of adaptation:

Midsouth and Southeast

Replace:

DP 5960 RR

Complement: Main competition: DP 5989, DP 6200 RR AG 5802, S59-V6

Most similar line:

DP 5960 RR

YIELD HISTORY

Outyielded DP 5960 RR by 7% in 15 Midsouth trials Outyielded DP 5960 RR by 16% in 4 Southeast trials Yield rank was 5/24 over 8 locations in 1999 Yield rank was 7/24 over 14 locations in 1998

KNOWN WEAKNESSES

Moderately euscoptible to stem canker Susceptible to root knot nematodes

SEED STOCK STATUS

2,400 units of breeder seed at GFS

ADDITIONAL DESCRIPTION

Offtypes of each of the following traits may be exhibited in up to 1% of the plants of this variety: flower color, pubescence color and hila color.

DP 5915 RR

PRODUCT PERFORMANCE

Combined data, all locations 1998-1999

	YIE	YIELD			LDG
	bu/ac	%596	0		
DP 5915 RR	53.4	109	-0.2	28.5	1.5
DP 5806 RR	50.6	101	-0.3	30.1	2.0
DP 5960 RR	50.1	100	0	31.4	1.9
S59-V6	52.0	104	-1.9	27.1	1.8
Locations	19		10	18	15

Data by region

Midsouth, all locations, 1998-1999

	YIELD		MAT	Hgt	LDG
	<u>bu/ac</u>	<u>%596</u>	<u>0</u>		
DP 5915 RR	53.7	107	1.3	26.7	<u> 1.5</u>
DP 5806 RR	49.6	99	0.9	29.8	2.1
DP 5960 RR	50.0	100	0	29.8	1.9
S59-V6	51.3	103	-0.6	26.1	1.7
Locations	15		5	12	12

Southeast, all locations, 1998-1999

	, ,				
	Yi	ELD	MAT	Hgt	LDG
	<u>bu/ac</u>	%596	0		
DP 5915 RR	58.1	116	<u>-1.5</u>	32.0	1.5
DP 5806 RR	54.4	109	-1.4	30.7	1.9
DP 5960 RR	50.1	100	0	34.5	1.6
S59-V6	54.5	109	-3.1	29.2	1.6
Locations	4		5	6	3

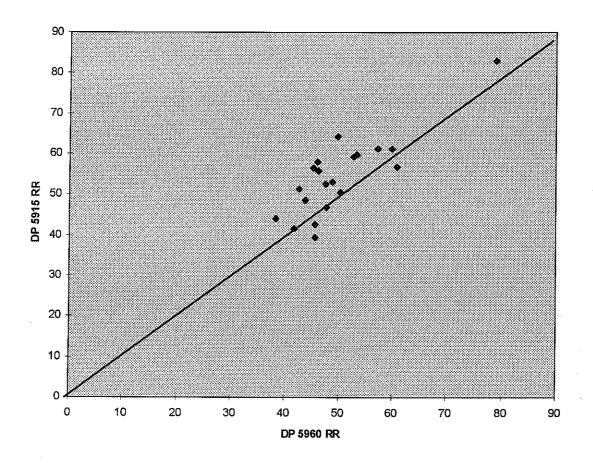
In 6/19 research trials, DP 5915 RR has exceeded the mean yield of the trial by 10% or greater.

in 9/19 research trials, DP 5915 RR has been among the top 1/3 of entries for yield.

In 1/19 research trials, DP 5915 RR has been the highest-yielding entry in the trial.

DP 5915 RR PRODUCT PERFORMANCE

DP 5915 RR vs DP 5960 RR



This scattergram depicts the head-to-head performance of DP 5915 RR against DP 5960 RR in 19 research trials conducted during 1998 and 1999. The axes are graduated in bushels/acre, and a point indicates the yields of the two varieties at a given environment. DP 5915 RR has out-yielded DP 5806 RR 15/19 times.

DP 5915 RR DISEASE REACTION DOCUMENTATION

Soybean Cyst Nematode (Heterodera glycines)

Data from Dr. Lawrence Young, USDA, Jackson, Tennessee

	Race 3	Race 3	Race 14	Race 14
Line	1998	1999	1998	199 <u>9</u>
DP 5915 RR	1.0	2.6	3.9	2.7
Res. Check	1.0	1.4	2.2	1.0
Sus. Check	5.0	5.0	4.6	5.0

Scale: 1= 0 to 5 females/plant, 2= 6 to 10, 3= 11 to 20, 4 = 21-40, 5 = more than 40 females/plant

Root Knot Nematode (Meloidogyne incognita and M. arenaria)

Data from Dr. Robert Kinloch, Univ. of Florida, Jay, Florida

	M.i.	M.i.	M.a.	M.a.
Line	1997	1998	1997	1 <u>998</u>
DP 5915 RR	5.0	2.0	5.0	3.5
Res. Check	1.5	2.0	1.0	2.0
Sus. Check	5.0	3.5	3.0	3.5

Scale:1= no galling, 5= very severe galling

Stem Canker (Diaporthe phaseolorum (Cooke & Ellis) Sacc. f. sp. meridionalis (Morgan-Jones)

Data from Dr. Grover Shannon, Deltapine Seed, Scott, Mississippi

1998	1999
Score	Score
3.0	1.0
1.0	1.0
5.0	3.0
	Score 3.0 1.0

Scale: 1= no symptoms, 5= very severe symptoms

REPRODUCE LOCALLY. Include form number and edition date on al	Il reproductions.	ORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to detect certificate is to be issued (7 U.S.C. 24 confidential until the certificate is issued.	121). The information is held
1. NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING COMPANY, LLC.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER DPX 5915 RR	3. VARIETY NAME DP 5915 RR
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. BOX 157 SCOTT, MISSISSIPPI 38772 8. Does the applicant own all rights to the variety? Mark an "X" in th	5. TELEPHONE (Include area code)	6. FAX (Include area code) 662.742.3182
	7. PVPO NUMBER 9	,
	99002.85	in YES NO
9. Is the applicant (individual or company) a U.S. national or a U.S. k	based company? If no, give name of co	ountry. X YES NO
a. If the original rights to variety were owned by individual(s), is YES b. If the original rights to variety were owned by a company(ies) YES YES YES	NO If no, give name of country	al(s)? y sed company?
11. Additional explanation on ownership (If needed, use the reverse DP 5915 RR contains a proprietary gene, pater which encodes a protein which provides tolera	nted by the Monsanto Compa	<u>-</u>
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals o 		
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must me	eet one of the above criteria.
The original breeder/owner may be the individual or company who did Act for definitions.	rected the final breeding. See Section 4	1(a)(2) ot the Plant Variety Protection

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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Delta and Pine Land Company's Application for DP 5915 RR

Exhibit E

Statement of the Basis of Ownership

DP 5915 RR originated from crosses made by employees of the Research Department of Defeated Company (D&PL). Work product of these employees is the property of D&PL. D&PL has assigned all of its rights as owner of DP 5915 RR to its wholly owned subsidiary, D&PL Technology Holding Corp. Company, LLC (STI 4/20204)

DP 5915 RR contains a proprietary gene, patented by the Monsanto Company and licensed to D&PL, which encodes a protein which provides tolerance to glyphosate herbicide in soybean cultivars.